PATENT COOPERATION TREATY

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REC'D 1 2 JUL 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABLATOR

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(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference					
P03820DP International application No.	FOR FURTHER ACT		See Form PCT/IPEA/416		
PCT/KR2004/000744	International filing date(date)		Priority date (day/month/year)		
International Patent Classification (IP	31 MARCH 2004 (3	1.03.2004)	02 APRIL 2003 (02.04.2003)		
IPC7 H04Q 7/38					
Applicant					
SK TELECOM CO., LTD e	al				
1. This report is the international in	rolii				
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4. This report contains indications re	lating to the following items:	•			
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Box No. II Priority		•	·		
Box No. III Non-establi	shment of opinion with regard	to novelty inventive ste	n and industrial at a sur		
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V Contained.					
Box No. VI Certain documents cited					
Box No. VII Certain defe					
Box No. VIII Certain observations on the international application					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International aplication No.

PCT/KR2004/000744 Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not the international application as originally filed/furnished the description: pages as originally filed/furnished pages* received by this Authority on pages* received by this Authority on the claims: pages pages* as originally filed/furnished as amended (together with any statment) under Article 19 pages* received by this Authority on. pages* received by this Authority on the drawings: pages . as originally filed/furnished pages* ___ received by this Authority on pages* ___ received by this Authority on the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages _ the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify) : _ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box the description, pages the claims, Nos. the drawings, sheets ___ the sequence listing (specify): any table(s) related to sequence listing (specify): * If item 4 applies, some or all of those sheets may be marked "superseded."

International aplication No.

PCT/KR2004/000744

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims Claims	1-10 NONE	<u>Y</u> ES
	Inventive step (IS)	Claims	2-5, 8-10	No
		Claims	1,6,7	YES
	Industrial applicability (IA)	Claims	1-10	
		Claims	NONE	YES
		Cidillis		No

2. Citations and explanations (Rule 70.7)

1. Reference is made to the following documents:

D1: EP 1286317 A2 D2: WO 02/087149 A1 D3: EP 1271885 A2

2. Noveltý (N)

The subject matter of Claims 1-10 is novel under Article 33(1) and (2).

3. Inventive Steps (IS)

Claims 1-10 relate to a method and apparatus for wireless user authentication using infrared communication of a mobile terminal in which electronic signature data stored in the mobile terminal is provided to an automated transaction system in a wireless manner so that the user may be identified. In claims 1,6, the system comprises a mobile terminal, an automated information providing means, and a certification providing means. In claim 7, the method comprises the steps of requesting the service, transmitting the electronic signature data to the automated information providing means, obtaining a certificate, and performing user authentication.

Whereas, D1 discloses methods of crediting an account and has particular but not exclusive application to pre-paid mobile telephone accounts. The crediting process comprises two stages including a request and a payment stage. D2 discloses a communication system between a mobile terminal and a service terminal by using an infrared radiation method. The mobile terminal decrypts the server certificate by using the public key of the IP server. The mobile terminal performs communication of particular data after checking whether the service terminal is authorized.D3 discloses a method and system to route object exchanges beyond clients and object exchange(OBEX) servers in close proximity with one another. It provides the ability to route OBEX communications across a communication network such as the internet.

It is apparent that no inventive steps are required for a person having an ordinary skill in the art to combine D1 and D2 to arrive at the present invention as claimed in Claims 1 and 7. And it is apparent that no inventive steps are required for a person having an ordinary skill in the art to combine D1 and D2 and D3 to arrive at the present invention as claimed in Claim 6. Therefore, Claims 1, 6, 7 lack an inventive step(PCT

4. Industrial Applicability (IA)

Claims 1-10 have industrial applicability under PCT Article 33(4), because the subject matter claimed can